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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/509,359BDATE: 11/23/98  
TIME: 13:48:38

INPUT SET: S29990.raw

P. Duffy

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

ENTERED

1 SEQUENCE LISTING  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: ST. GEORGE-HYSLOP, PETER H  
6 ROMMENS, JOHANNA M  
7 FRASER, PAUL E  
8  
9 (ii) TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED  
10 TO ALZHEIMER'S DISEASE  
11  
12 (iii) NUMBER OF SEQUENCES: 183  
13  
14 (iv) CORRESPONDENCE ADDRESS:  
15 (A) ADDRESSEE: LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK  
16 (B) STREET: 600 South Avenue West  
17 (C) CITY: Westfield  
18 (D) STATE: New Jersey  
19 (E) COUNTRY: U.S.A.  
20 (F) ZIP: 07090  
21  
22 (v) COMPUTER READABLE FORM:  
23 (A) MEDIUM TYPE: Floppy disk  
24 (B) COMPUTER: IBM PC compatible  
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
26 (D) SOFTWARE: Microsoft Word, Version 6.0c  
27  
28 (vi) CURRENT APPLICATION DATA:  
29 (A) APPLICATION NUMBER: US 08/509,359  
30 (B) FILING DATE: 31-JUL-95  
31 (C) CLASSIFICATION:  
32  
33 (viii) ATTORNEY/AGENT INFORMATION:  
34 (A) NAME: Palisi, Thomas M.  
35 (B) REGISTRATION NUMBER: 36629  
36  
37 (ix) TELECOMMUNICATION INFORMATION:  
38 (A) TELEPHONE: (908) 654-5000  
39 (B) TELEFAX: (908) 654-7866  
40  
41  
42 (2) INFORMATION FOR SEQ ID NO:1:  
43  
44 (i) SEQUENCE CHARACTERISTICS:  
45 (A) LENGTH: 2791 base pairs  
46 (B) TYPE: nucleic acid

RAW SEQUENCE LISTING  
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47 (C) STRANDEDNESS: single  
48 (D) TOPOLOGY: linear  
49  
50 (ii) MOLECULE TYPE: cDNA  
51  
52  
53 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
54  
55 TGGGACAGGC AGCTCCGGGG TCCGCGGTTT CACATCGGAA AAAAAACAGC GGCTGGTCTG 60  
56  
57 GAAGGAACCT GAGCTACGAG CCGCGGCGGC AGCGGGGCGG CGGGGNAAGC GTATACCTAA 120  
58  
59 TCTGGGAGCC TGCAAGTGAC AACAGCCTTT GCGGTCCTTA GACAGCTTGG CCTGGAGGAG 180  
60  
61 AACACATGAA AGAAAGAACC TCAAGAGGCT TTGTTTTCTG TGAAACAGTA TTTCTATACA 240  
62  
63 GTTGCTCCAA TGACAGAGTT ACCTGCACCG TTGTCTTACT TCCAGAATGC ACAGATGTCT 300  
64  
65 GAGGACAACC ACCTGAGCAA TACTGTACGT AGCCAGAATG ACAATAGAGA ACGGCAGGAG 360  
66  
67 CACAACGACA GACGGAGCCT TGGCCACCTT GAGCCATTAT CTAATGGACG ACCCCAGGGT 420  
68  
69 AACTCCCGGC AGGTGGTGGA GCAAGATGAG GAAGAAGATG AGGAGCTGAC ATTGAAATAT 480  
70  
71 GGCGCCAAGC ATGTGATCAT GCTCTTTGTC CCTGTGACTC TCTGCATGGT GGTGGTCGTG 540  
72  
73 GCTACCATTA AGTCAGTCAG CTTTTATACC CGGAAGGATG GGCAGCTAAT CTATACCCCA 600  
74  
75 TTCACAGAAG ATACCGAGAC TGTGGGCCAG AGAGCCCTGC ACTCAATTCT GAATGCTGCC 660  
76  
77 ATCATGATCA GTGTCATTGT TGTCATGACT ATCCTCCTGG TGGTTCCTGTA TAAATACAGG 720  
78  
79 TGCTATAAAG TCATCCATGC CTGGCTTATT ATATCATCTC TATTGTTGCT GTTCTTTTTT 780  
80  
81 TCATTCAATTT ACTTGGGGGA AGTGTTTTAA ACCTATAACG TTGCTGTGGA CTACATTACT 840  
82  
83 GTTGCACTCC TGATCTGGAA TTTGGGTGTG GTGGGAATGA TTTCCATTCA CTGGAAAGGT 900  
84  
85 CCACTTCGAC TCCAGCAGGC ATATCTCATT ATGATTAGTG CCCTCATGGC CCTGGTGTTT 960  
86  
87 ATCAAGTACC TCCCTGAATG GACTGCGTGG CTCATCTTGG CTGTGATTTT AGTATATGAT 1020  
88  
89 TTAGTGGCTG TTTTGTGTCC GAAAGGTCCA CTTTCGTATGC TGGTTGAAAC AGCTCAGGAG 1080  
90  
91 AGAAATGAAA CGCTTTTTTCC AGCTCTCATT TACTCCTCAA CAATGGTGTG GTTGGTGAAT 1140  
92  
93 ATGGCAGAAG GAGACCCGGA AGCTCAAAGG AGAGTATCCA AAAATTCCAA GTATAATGCA 1200  
94  
95 GAAAGCACAG AAAGGGAGTC ACAAGACACT GTTGCAGAGA ATGATGATGG CGGGTTCAGT 1260  
96  
97 GAGGAATGGG AAGCCCAGAG GGACAGTCAT CTAGGGCCTC ATCGCTCTAC ACCTGAGTCA 1320  
98  
99 CGAGCTGCTG TCCAGGAACT TTCCAGCAGT ATCCTCGCTG GTGAAGACCC AGAGGAAAGG 1380

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100
101 GGAGTAA AAC TTGGATTGGG AGATTTTCATT TTCTACAGTG TTCTGGTTGG TAAAGCCTCA 1440
102
103 GCAACAGCCA GTGGAGACTG GAACACAACC ATAGCCTGTT TCGTAGCCAT ATTAATTGGT 1500
104
105 TTGTGCCTTA CATTATTACT CCTTGCCATT TTCAAGAAAG CATTGCCAGC TCTTCCAATC 1560
106
107 TCCATCACCT TTGGGCTTGT TTTCTACTTT GCCACAGATT ATCTTGTACA GCCTTTTATG 1620
108
109 GACCAATTAG CATTCCATCA ATTTTATATC TAGCATATTT GCGGTTAGAA TCCCATGGAT 1680
110
111 GTTTCCTCTT TGACTATAAC CAAATCTGGG GAGGACAAAG GTGATTTTCC TGTGTCCACA 1740
112
113 TCTAACAAAG TCAAGATTCC CGGCTGGACT TTTGCAGCTT CCTTCCAAGT CTTCTGACC 1800
114
115 ACCTTGCACT ATTGGACTTT GGAAGGAGGT GCCTATAGAA AACGATTTTG AACATACTTC 1860
116
117 ATCGCAGTGG ACTGTGTCCT CGGTGCAGAA ACTACCAGAT TTGAGGGACG AGGTCAAGGA 1920
118
119 GATATGATAG GCCCGGAAGT TGCTGTGCCC CATCAGCAGC TTGACGCGTG GTCACAGGAC 1980
120
121 GATTTCACTG ACACTGCGAA CTCTCAGGAC TACCGGTTAC CAAGAGGTTA GGTGAAGTGG 2040
122
123 TTAAACCAA ACGGAACCTC TCATCTTAAA CTACACGTTG AAAATCAACC CAATAATTCT 2100
124
125 GTATTAACTG AATTCTGAAC TTTTCAGGAG GTACTGTGAG GAAGAGCAGG CACCAGCAGC 2160
126
127 AGAATGGGGA ATGGAGAGGT GGGCAGGGGT TCCAGCTTCC CTTTGATTTT TTGCTGCAGA 2220
128
129 CTCATCCTTT TTAAATGAGA CTGTGTTTCC CCTCTCTTTG AGTCAAGTCA AATATGTAGA 2280
130
131 TGCTTTTGGC AATTCTTCTT CTCAAGCACT GACACTCATT ACCGTCTGTG ATTGCCATTT 2340
132
133 CTTCCCAAGG CCAGTCTGAA CCTGAGGTTG CTTTATCCTA AAAGTTTTAA CCTCAGGTTT 2400
134
135 CAAATTCAGT AAATTTTGGA AACAGTACAG CTATTTCTCA TCAATTCTCT ATCATGTTGA 2460
136
137 AGTCAAATTT GGATTTTCCA CCAAATCTG AATTTGTAGA CATACTTGTA CGCTCACTTG 2520
138
139 CCCCAGATGC CTCCTCTGTC CTCATTCTTC TCTCCACAC AAGCAGTCTT TTTCTACAGC 2580
140
141 CAGTAAGGCA GCTCTGTCGT GGTAGCAGAT GGTCCTTCTT ATTCTAGGGT CTTACTCTTT 2640
142
143 GTATGATGAA AAGAATGTGT TATGAATCGG TGCTGTCAGC CCTGCTGTCA GACCTTCTTC 2700
144
145 CACAGCAAAT GAGATGTATG CCCAAAGCGG TAGAATTAAA GAAGAGTAAA ATGGCTGTTG 2760
146
147 AAGCAAAAAA AAAAAAAAAA AAAAAAAAAA A 2791
148
149
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(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/509,359B

DATE: 11/23/98  
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INPUT SET: S29990.raw

153 (A) LENGTH: 467 amino acids  
154 (B) TYPE: amino acid  
155 (C) STRANDEDNESS: single  
156 (D) TOPOLOGY: linear  
157  
158  
159 (ii) MOLECULE TYPE: protein  
160  
161 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
162  
163 Met Thr Glu Leu Pro Ala Pro Leu Ser Tyr Phe Gln Asn Ala Gln Met  
164 1 5 10 15  
165  
166 Ser Glu Asp Asn His Leu Ser Asn Thr Val Arg Ser Gln Asn Asp Asn  
167 20 25 30  
168  
169 Arg Glu Arg Gln Glu His Asn Asp Arg Arg Ser Leu Gly His Pro Glu  
170 35 40 45  
171  
172 Pro Leu Ser Asn Gly Arg Pro Gln Gly Asn Ser Arg Gln Val Val Glu  
173 50 55 60  
174  
175 Gln Asp Glu Glu Glu Asp Glu Glu Leu Thr Leu Lys Tyr Gly Ala Lys  
176 65 70 75 80  
177  
178 His Val Ile Met Leu Phe Val Pro Val Thr Leu Cys Met Val Val Val  
179 85 90 95  
180  
181 Val Ala Thr Ile Lys Ser Val Ser Phe Tyr Thr Arg Lys Asp Gly Gln  
182 100 105 110  
183  
184 Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr Glu Thr Val Gly Gln Arg  
185 115 120 125  
186  
187 Ala Leu His Ser Ile Leu Asn Ala Ala Ile Met Ile Ser Val Ile Val  
188 130 135 140  
189  
190 Val Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys  
191 145 150 155 160  
192  
193 Val Ile His Ala Trp Leu Ile Ile Ser Ser Leu Leu Leu Leu Phe Phe  
194 165 170 175  
195  
196 Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Ala  
197 180 185 190  
198  
199 Val Asp Tyr Ile Thr Val Ala Leu Leu Ile Trp Asn Leu Gly Val Val  
200 195 200 205  
201  
202 Gly Met Ile Ser Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala  
203 210 215 220  
204  
205 Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/509,359B

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206	225	230	235	240
207				
208	Leu Pro Glu Trp Thr Ala Trp Leu Ile Leu Ala Val Ile Ser Val Tyr			
209		245	250	255
210				
211	Asp Leu Val Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val			
212		260	265	270
213				
214	Glu Thr Ala Gln Glu Arg Asn Glu Thr Leu Phe Pro Ala Leu Ile Tyr			
215		275	280	285
216				
217	Ser Ser Thr Met Val Trp Leu Val Asn Met Ala Glu Gly Asp Pro Glu			
218		290	295	300
219				
220	Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu Ser Thr			
221	305	310	315	320
222				
223	Glu Arg Glu Ser Gln Asp Thr Val Ala Glu Asn Asp Asp Gly Gly Phe			
224		325	330	335
225				
226	Ser Glu Glu Trp Glu Ala Gln Arg Asp Ser His Leu Gly Pro His Arg			
227		340	345	350
228				
229	Ser Thr Pro Glu Ser Arg Ala Ala Val Gln Glu Leu Ser Ser Ser Ile			
230		355	360	365
231				
232	Leu Ala Gly Glu Asp Pro Glu Glu Arg Gly Val Lys Leu Gly Leu Gly			
233		370	375	380
234				
235	Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ser Ala Thr Ala			
236	385	390	395	400
237				
238	Ser Gly Asp Trp Asn Thr Thr Ile Ala Cys Phe Val Ala Ile Leu Ile			
239		405	410	415
240				
241	Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu			
242		420	425	430
243				
244	Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala			
245		435	440	445
246				
247	Thr Asp Tyr Leu Val Gln Pro Phe Met Asp Gln Leu Ala Phe His Gln			
248		450	455	460
249				
250	Phe Tyr Ile			
251	465			
252				
253				
254				
255				
256	(2) INFORMATION FOR SEQ ID NO:3:			
257				
258	(i) SEQUENCE CHARACTERISTICS:			

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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/509,359B**

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*INPUT SET: S29990.raw*

Line

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Original Text